



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application for:

Yibin Ye et al.

Application No.: 10/749,734

Filed: 12/30/2003

For: A 1P1N 2T GAIN CELL

Examiner: Not Yet Assigned

Art Group: 2818

Confirmation No. 9041

CERTIFICATE OF TRANSMISSION/MAILING  
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this date: 10/29/2004

Typed or Printed: Heather L. Adamson

Signature: Heather L. Adamson Date: 10/29/2004

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

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Pursuant to 37 C.F.R. § 1.97(g), the submission of this Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, and, pursuant to 37 C.F.R. § 1.97(h), the submission of this IDS is not to be construed as an admission that the information cited in this IDS is material to patentability.

This IDS is being submitted under one or more of the following sections of 37

C.F.R. § 1.97 (as indicated by an "X" to the left of the appropriate paragraph(s)):

X 37 C.F.R. § 1.97(b). Filed:

- (1) Within three months of a National Application other than a CPA;
- (2) Within three months of entry into National Stage;
- (3) Before mailing of a first Office Action on the merits; or
- (4) Before mailing of a first Office Action after filing an RCE.

       37 C.F.R. § 1.97(c). Filed before the mailing of a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution.

And, ONE of the following:

(1) One statement from 37 C.F.R. § 1.97(e);

       (e)(1) The person signing below certifies that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

       (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

**OR**

(2) The fee set forth in 37 C.F.R. § 1.17(p).

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       37 C.F.R. § 1.97(d). Filed on or before payment of the issue fee.

And, BOTH of the following:

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       (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

**AND**

(2) The fee set forth in 37 C.F.R. § 1.17(p).

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Accompanying this IDS is a list of references and a copy of each reference listed therein, EXCEPT copies of references waived under:

(A) one or more of the following sections of 37 C.F.R. § 1.98 (as indicated by an "X" to the left of the appropriate paragraph(s)):

37 C.F.R. § 1.98(c) as being cumulative (marked with an "\*" on the Form PTO-1449).

37 C.F.R. § 1.98(d) as being previously submitted in parent application /, to which the present application claims priority under 35 U.S.C. § 120.

(B) 1273 Off. Gaz. Pat. Office 55 as being submitted with respect to an application filed after June 30, 2003.

The Commissioner is hereby authorized to charge shortages or credit overpayments to Deposit Account No. 500393. A Fee Transmittal is enclosed in duplicate for fee processing purposes.

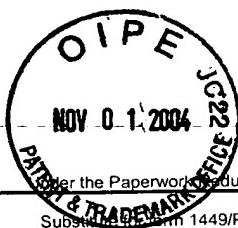
Respectfully submitted,  
Schwabe, Williamson & Wyatt, P.C.

Dated: 29 oct 04



Robert Watt  
Registration No. 45,890

Pacwest Center, Suites 1600-1900  
1211 SW Fifth Avenue  
Portland, Oregon 97204  
Telephone: 503-222-9981



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
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Submitted via Form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of 5

**Complete if Known**

Application Number	10/749,734
Filing Date	12/30/2003
First Named Inventor	Yibin Ye
Art Unit	2818
Examiner Name	Not Yet Assigned
Attorney Docket Number	110350-134110

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
1	US- 5,122,986		06/16/1992	Lim	
2	US- 5,838,203		11/17/1998	Stamoulis et al.	
3	US- 5,943,270		08/24/1999	Borkar	
4	US- 5,986,473		11/16/1999	Krishnamurthy et al.	
5	US- 6,002,272		12/14/1999	Somasekhar et al.	
6	US- 6,014,041		01/11/2000	Somasekhar et al.	
7	US- 6,100,751		08/08/2000	De et al.	
8	US- 6,154,045		11/28/2000	Ye et al.	
9	US- 6,169,419 B1		01/02/2001	De et al.	
10	US- 6,181,608 B1		01/30/2001	Keshavarzi et al.	
11	US- 6,191,606 B1		02/20/2001	Ye et al.	
12	US- 6,218,892 B1		04/17/2001	Soumyanath et al.	
13	US- 6,218,895 B1		04/17/2001	De et al.	
14	US- 6,232,827 B1		05/15/2001	De et al.	
15	US- 6,272,666 B1		08/07/2001	Borkar et al.	
16	US- 2001/0011917 A1		08/09/2001	Kim et al.	
17	US- 6,275,071 B1		08/14/2001	Ye et al.	
18	US- 6,300,819 B1		10/09/2001	De et al.	
19	US- 6,316,960 B2		11/13/2001	Ye	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet

2

of

5

**Complete if Known**

Application Number	10/749,734
Filing Date	12/30/2003
First Named Inventor	Yibin Ye
Art Unit	2818
Examiner Name	Not Yet Assigned

Attorney Docket Number 110350-134110

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		Number-Kind Code <sup>2</sup> ( <i>if known</i> )			
20	US- 6,329,874 B1		12/11/2001	Ye et al.	
21	US- 6,351,156 B1		02/26/2002	Hamzaoglu et al.	
22	US- 6,400,206 B2		06/04/2002	Kim et al.	
23	US- 2002/0067189 A1		06/06/2002	Ye et al.	
24	US- 2002/0070781 A1		06/13/2002	Vangal et al.	
25	US- 6,411,156 B1		06/25/2002	Borkar	
26	US- 6,421,269 B1		07/16/2002	Somasekhar et al.	
27	US- 6,421,289 B1		07/16/2002	Lu et al.	
28	US- 6,459,316 B1		10/01/2002	Vangal et al.	
29	US- 6,486,706 B2		11/26/2002	Ye et al.	
30	US- 2002/0175726 A1		11/28/2002	Vangal et al.	
31	US- 2002/0184285 A1		12/05/2002	Pangal et al.	
32	US- 6,492,837 B1		12/10/2002	Narendra et al.	
33	US- 6,496,040 B1		12/17/2002	Narendra et al.	
34	US- 6,496,402 B1		12/17/2002	Somasekhar et al.	
35	US- 2002/0194240 A1		12/19/2002	Pangal et al.	
36	US- 6,509,772 B1		01/21/2003	Ye et al.	
37	US- 6,515,513 B2		02/04/2003	Ye et al.	
38	US- 6,519,176 B1		02/11/2003	Hamzaoglu et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )				

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Sheet	3	of	5	
				Application Number      10/749,734
				Filing Date      12/30/2003
				First Named Inventor      Yibin Ye
				Art Unit      2818
				Examiner Name      Not Yet Assigned
				Attorney Docket Number      110350-134110

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		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
39	US- 2003/0030466 A1	02/13/2003	Narendra et al.		
40	US- 6,529,045 B2	03/04/2003	Ye et al.		
41	US- 6,545,619 B1	04/08/2003	Segura et al.		
42	US- 6,567,329 B2	05/20/2003	Somasekhar et al.		
43	US- 6,593,799 B2	07/15/2003	De et al.		
44	US- 6,597,223 B2	07/22/2003	Vangal et al.		
45	US- 6,608,786 B2	08/19/2003	Somasekhar et al.		
46	US- 6,653,866 B2	11/25/2003	Narendra et al.		
47	US- 6,701,339 B2	03/02/2004	Vangal et al.		
48	US- 6,707,708 B1	03/16/2004	Alvandpour et al.		
49	US- 6,707,755 B1	03/16/2004	Somasekhar et al.		
50	US- 6,721,222 B2	04/13/2004	Somasekhar et al.		
51	US- 6,724,648 B2	04/20/2004	Khellah et al.		
52	US- 6,724,649 B1	04/20/2004	Ye et al.		
53	US- 6,734,498 B2	05/11/2004	Keshavarzi et al.		
54	US- 6,737,924 B1	05/18/2004	Paillet et al.		
55	US- 6,744,301 B1	06/01/2004	Tschanz et al.		
56	US- 6,757,784 B2	06/29/2004	Lu et al.		
57	US- 6,765,414 B2	07/20/2004	Keshavarzi et al.		

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/749,734
		Filing Date	12/30/2003
		First Named Inventor	Yibin Ye
		Art Unit	2818
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	110350-134110

## U. S. PATENT DOCUMENTS

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

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				Art Unit	2818
				Examiner Name	Not Yet Assigned
Sheet	5	of	5	Attorney Docket Number	110350-134110

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	62	IKEDA, N., et al., "A Novel Logic Compatible Gain Cell with two Transistors and one Capacitor," ULSI R&D Laboratories, LSI Business & Technology Group,		
		C.N.C., Sony Corporation, Japan, 2000 Symposium on VLSI Technology Digest of Technical Papers, IEEE, pp. 168-169		

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## **TRANSMITTAL FORM**

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**Total Number of Pages in This Submission**

Application Number	10/749,734
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Art Unit	2818
Examiner Name	Not Yet Assigned
Attorney Docket Number	110350-134110

**ENCLOSURES**      *(Check all that apply)*

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Schwabe, Williamson & Wyatt, P.C.		
Signature			
Printed name	Robert Watt		
Date	29 OCT 04	Reg. No.	45,890

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Signature			
Typed or printed name	Heather L. Adamson	Date	10/29/2001

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# FEE TRANSMITTAL

## for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$0.00)

## Complete if Known

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Art Unit	2818
Attorney Docket No.	110350-134110

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None
 Deposit Account:

Deposit Account Number

Deposit Account Name

500393

Schwabe Williamson et al.

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below  Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,370	2453	685	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	660	2503	330	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$0.00)

\*\*or number previously paid, if greater; For Reissues, see above

(Complete if applicable)

SUBMITTED BY	Robert Watt	Registration No. (Attorney/Agent)	45,890	Telephone 503-222-9981
Signature			Date	

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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